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(54) Fluid delivery system with multi-dose fluid source

A fluid delivery system (400A) is generally directed to allowing fluid sources or other fluid delivery components to be reused with multiple fluid targets (318), and includes at least one fluid source (314) fluidly interconnectable with at least one sterilization zone (316) and at least one fluid target (318). This sterilization zone (316) could include one or more sterilization systems that attempt to neutralize contaminants entering the fluid delivery system (400A) by a backflow from the fluid target (318). One such sterilization system (500A-D) includes a container (502a-d) and a flush system (520) for sterilizing the container (502a-d) between uses. Another sterilization system (600) includes a flowpath (604) exposed to an output of an energy source (602) capable of destroying contaminants. Yet another sterilization system could include a sterilizing substance (710) that engages and moves along an interior surface (705) of a housing (704) to treat contamination thereon.

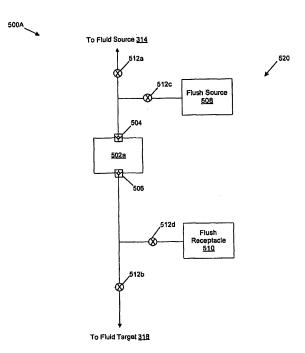


FIG. 5A

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EUROPEAN SEARCH REPORT

Application Number EP 10 01 5319

	DOCUMENTS CONSID	ERED TO BE RELEVANT		
Category	Citation of document with in of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	AL) 11 September 20 * abstract *	CHON DOUGLAS J [US] ET 007 (2007-09-11) - column 11, line 61;	1	INV. A61M5/145 A61M5/315 A61M31/00 A61M5/168
A	US 5 356 375 A (HIG 18 October 1994 (19 * abstract * * column 3, line 15 figure 1 *		1	
A	AL) 23 December 200 * abstract *	REILLY DAVID M [US] ET 4 (2004-12-23) - [0061]; figure 1A *	1	
A	CASH WILLIAM PHILLI 6 April 2006 (2006- * abstract *		1	TECHNICAL FIELDS SEARCHED (IPC) A61M
	The present search report has	peen drawn up for all claims		
	Place of search	Date of completion of the search	' 	Examiner
	Berlin	2 September 2011	Nie	lsen, Michael
X : parti Y : parti docu A : tech O : non	ATEGORY OF CITED DOCUMENTS coularly relevant if taken alone coularly relevant if combined with anot ment of the same category nological background written disclosure mediate document	T : theory or principle E : earlier patent doc after the filing dat D : document cited in L : document cited fo	e underlying the i ument, but publi e n the application or other reasons	nvention shed on, or

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 10 01 5319

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

02-09-2011

	Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US	7267666	B1	11-09-2007	NONE		
US	5356375	Α	18-10-1994	NONE		
US	2004260143	A1	23-12-2004	NONE		
US	2006074350	A1		WO	2006041817 A1	20-04-2006
			ficial Journal of the Euro			